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NOTICE OF ALLOWANCE AND FEE(S) DUE

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09/05/2007

ROSS SPENCER GARSSON WINSTEAD SECHREST & MINICK P.C. P. O. BOX 50784 DALLAS, TX 75201 EXAMINER

COLE, ELIZABETH M

ART UNIT PAPER NUMBER

1771

DATE MAILED: 09/05/2007

APPLICATION NO.			ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/722,950	11/27/2000	Richard E. Smalley	11321-P002D1	5035

TITLE OF INVENTION: ROPES OF SINGLE-WALL CARBON NANOTUBES AND COMPOSITIONS THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$0	\$0	\$700	12/05/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONF	FIRMATION NO.
09/722,950	11/27/2000	•	Richard E. Smalley		•	1	1321-P002D1		5035
APPLN. TYPE	SMALL ENTITY	VALL CARBON NANO	PUBLICATION FEE DU		PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	1	DATE DUE
nonprovisional	YES	\$700	\$0		\$0		\$700		12/05/2007
EXAM		ART UNIT	CLASS-SUBCLASS			****			
COLE, ELIZ		1771	442-320000	_					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, altern (2) the name of a si registered attorney 2 registered patent a	nting on the patent front page, list times of up to 3 registered patent attorneys OR, alternatively, me of a single firm (having as a member a attorney or agent) and the names of up to ed patent attorneys or agents. If no name is name will be printed.					
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09/722,950	9/722,950 11/27/2000 Richard E. Smalley		11321-P002D1	5035	
47744 75	90 09/05/2007		EXAM	INER	
ROSS SPENCER	R GARSSON	COLE, ELIZABETH M			
	HREST & MINICK P.O	2.	ART UNIT	PAPER NUMBER	
P. O. BOX 50784 DALLAS, TX 752	01		1771 DATE MAILED: 09/05/200	7	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
Notice of Allowability	09/722,950 Examiner	SMALLEY ET AL. Art Unit
· · · · · · · · · · · · · · · · · · ·		
	Elizabeth M. Cole	1771
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment and term</u>	inal disclaimer filed 6/18/07.	
2. ☑ The allowed claim(s) is/are <u>35-44,46,47,50 and 51</u> .		
 3.	been received. been received in Application No cuments have been received in this application. Set the submitted in the submitted in the submitted in the comment or in the Comment or in the Comment or in the Comment of the drawing he header according to 37 CFR 1.121(content of BIOLOGICAL MATERIAL in the comment of the drawing set of BIOLOGICAL MATERIAL in the comment of the drawing set of BIOLOGICAL MATERIAL in the comment of the drawing set of BIOLOGICAL MATERIAL in the comment of the drawing set of BIOLOGICAL MATERIAL in the comment of the drawing set of BIOLOGICAL MATERIAL in the comment of th	complying with the requirements S AMENDMENT or NOTICE OF tion is deficient. 948) attached ffice action of logs in the front (not the back) of the submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal Pages No./Mail Dat Paper No./Mail Dat Pages No./Mail Dat Pages No./Mail Dat Pages No. ☐ Examiner's Amendn No. ☐ Examiner's Stateme No. ☐ Other	(PTO-413), e .

1. The following is an examiner's statement of reasons for allowance: The primary reason for allowance is that Applicant's arguments regarding the teachings regarding laser vaporization as taught by Curl "Collapse and Growth" and the invention disclosed in "Growth Morphologies" are persuasive. Specifically, Curl, "Collapse and Growth", teaches that increased yields of Buckminster fullerenes are produced when laser vaporization is employed. However, "Collapse and Growth" does not provide a teaching or motivation that employing laser vaporization in the invention of "Growth Morphologies" would have formed a rope comprising single wall carbon nanotubes having 50-5000 single wall carbon nanotubes of which greater than 10% are (10,10) single-wall carbon nanotubes and it would not have been predictable that combining the teachings would have formed a rope comprising single wall carbon nanotubes having 50-5000 single wall carbon nanotubes of which greater than 10% are (10,10) single-wall carbon nanotubes. Further, there would not have been a reasonable expectation of success that a rope comprising single wall carbon nanotubes having 50-5000 single wall carbon nanotubes of which greater than 10% are (10,10) single-wall carbon nanotubes would be formed by employing laser vaporization in the invention of "Growth Morphologies", since "Collapse and Growth" is drawn to increasing yields of Buckminster fullerenes which are structurally different than carbon nanotube ropes. Similarly, "Collapse and Growth" does not provide a teaching or motivation that employing laser vaporization in the invention of "Growth Morphologies" would have formed a felt comprising single wall carbon nanotubes wherein the single wall carbon nanotubes comprise ropes of single wall nanotubes, wherein greater than 10% of the

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Application/Control Number: 09/722,950 Page 3

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single wall carbon nanotubes are (10,10) single-wall carbon nanotubes and it would not have been predictable that combining the teachings would have formed a felt comprising single wall carbon nanotubes wherein the single wall carbon nanotubes comprise ropes of single wall nanotubes, wherein greater than 10% of the single wall carbon nanotubes are (10,10) single-wall carbon nanotubes Further, there would not have been a reasonable expectation of success that a felt comprising single wall carbon nanotubes wherein the single wall carbon nanotubes comprise ropes of single wall nanotubes of which greater than 10% are (10,10) single-wall carbon nanotubes would be formed by employing laser vaporization in the invention of "Growth Morphologies", since "Collapse and Growth" is drawn to increasing yields of Buckminster fullerenes which are structurally different than carbon nanotube ropes and felts comprising such ropes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. The terminal disclaimer filed on 6/18/07 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 6,969,504 has been reviewed and is accepted. The terminal disclaimer has been recorded.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth M. Cole whose telephone number is (571) 272-1475. The examiner may be reached between 6:30 AM and 6:00 PM Monday through Wednesday, and 6:30 AM and 2 PM on Thursday.

Mr. Terrel Morris, the examiner's supervisor, may be reached at (571) 272-1478.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The fax number for all official faxes is (571) 273-8300.

/Elizabeth M. Cole/ Primary Examiner, Art Unit 1771

e.m.c